(19) World Intellectual Property Organization International Bureau



015 1

(43) International Publication Date 29 January 2004 (29.01.2004)

PCT

(10) International Publication Number WO 2004/009073 A1

(51) International Patent Classification⁷: A61K 31/245

(21) International Application Number:

PCT/KR2003/001441

(22) International Filing Date: 21 July 2

21 July 2003 (21.07.2003)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2002-0042794

20 July 2002 (20.07.2002) . KR

(71) Applicant (for all designated States except US): KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY [KR/KR]; 39-1, Hawolgok-Dong, Sungbook-Gu, Seoul 136-791 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHUNG, Hesson [KR/KR]; Ssangyogg Apt. 2-507, Gwangyo-Dong, Nam-Gu, Incheon 402-715 (KR) JEONG, Seo-Young [KR/KR]; Munchonmaeul Life Apt. 205-501, Juyeop 2-Dong, Ilsan-Gu, Goyang, Gyeonggi-Do 411-747 (KR).

KWON, Ick-Chan [KR/KR]; Siyoung Apt. 706-704, Hagye-Dong, Nowon-Gu. Seoul 139-230, (KR). PARK,

Yeong-Taek [KR/KR]; Taeyoung Apt. 203-602, Bono 3-Dong, Ansan, Gyeonggi-Do 425-735 (KR). LEE,

In-Hyun [KR/KR]; 600-99 Sindaebang 1-Dong, Dongjak-Gu, Seoul 156-011 (KR/YUK, Soon-Hong [KR/KR]; Hanbit Apt. 133-1105, Oeun-Dong, Yuseong-Gu, Daejeon 305-755 (KR)

(74) Agent: PARK, Jang-Won; Jewoo Building 5th Floor, 200, Nonhyun-Dong, Gangnam-Gu, Seoul 135-010 (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

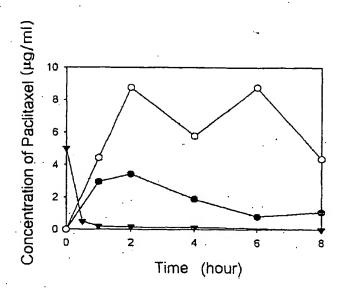
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

-For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: P-GLYCOPROTEIN INHIBITOR COMPRISING OCTILONIUM BROMIDE AS AN EFFECTIVE INGREDIENT



(57) Abstract: The present invention relates to a new use of octylonium bromide as p-glycoprotein inhibitor to increase cellular uptake of drugs. More particularly, the present invention provides octylonium bromide as a p-glycoprotein inhibitor to increase cellular uptake of drugs such as anticancer drugs by taking octylonium bromide simultaneously with or proceding drug administration.